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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/843,255	04/24/2001	Ramarathnam Venkatesan	MS1-647US	7357

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EXAMINER

BALI, VIKKRAM

ART UNIT PAPER NUMBER

2624

DATE MAILED: 11/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/843,255

Applicant(s)

VENKATESAN ET AL.

Examiner

Vikram Bali

Art Unit

2624

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 September 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7, 15-19, 64, 65 and 67-71 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7, 15-19, 64, 65 and 67-71 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 6/7/06; 8/7/06
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/6/2006 has been entered. And, amendment have been entered and the action follows:

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1-7, 15-19, 64-65 and 67-71 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hull et al (US 5465353) in view of Pugh et al (US 6658423).

Regarding Claim 1, Hull discloses a computer-implemented method for hashing a body of text, the method comprising:

obtaining a body of text containing textual content in a computer readable format (Figure 2, numerical 202, the textual content on the paper as to be scanned using the scanner 204), and wherein the textual content of the obtained computer readable formatted body of text is mutable via software tools for manipulation of textual content of bodies of text, (reference Hull discloses scanner (figure 2, numerical 204), and the page (fig. 2, numerical 202), once it [page] is scan one [individual] can easily manipulate the scanned document via a software such as MS-Word or like "mutable via software tools");

formatting the filtered subtext into a defined image based format, wherein the textual content of the formatted filtered subtext is immutable via software tools for manipulation of the textual content, (the scanner convert "format" the textual data on the paper numerical 202 of the figure 2 into an image, and Hull in the figure 2 once the scanner 204 scans the document 202 to create an image then the textual content of the document cannot be manipulated by the software tools, because the textual content requires different software tools to manipulate then the image in the computer system);

deriving a hash value representative of content of the filtered subtext, perceptually distinct filtered subtexts having hash values that are substantially independent of each other (Figures 2, numerical 214, and see col. 13 lines 30-44,

wherein the hash descriptors are created using the word of the document and the descriptors are "substantially independent of each other" as they are dependent on the lengths of the words).

However, he fails to explicitly disclose filtering the textual content the body of the text to remove elements of the textual contents, wherein filtering act products filtered subtext, which is a subset of the textual content of the body of text, as claimed.

Pugh in detecting duplicate and near duplicate files teaches filtering the textual content the body of the text to remove elements of the textual contents, wherein filtering act products filtered subtext, which is a subset of the textual content of the body of text, (col. 7, lines 45-55, in that specifically line 50-51 states extracting parts from the documents i.e. "filtering" and the words is read as the "subtext") as claimed.

It would have been obvious to one ordinary skilled in the art at the time of invention to combine the two references as they are analogous because they are solving the similar problem of document matching. Incorporating the teachings of Pugh of filtering the document in order to extract the words can be incorporated in the Hull system in order to attain a system that provides a better near duplicate determination technique, (see col. 7, lines 26-27) for motivation.

Regarding Claim 2, Hull further discloses a method as recited in Claim 1, wherein perceptually distinct filtered subtext have hash values that are independent of each other (col. 13 lines 30-44, wherein the hash descriptors are created using the word of the document and the descriptors are different as they are dependent on the lengths of the words "perceptually distinct bodies of text have hash values").

Regarding Claim 3, Hull further discloses a method as recited in Claim 1 further comprising comparing hash values of two filtered subtext to determine if such values match (col. 9, lines 35-40, wherein the hash descriptors are cross referenced in order to query the document database “comparing hash values of two bodies of text to determine if such values match”).

Regarding Claim 4, Hull further discloses a method as recited in Claim 1 further comprising comparing hash values of two filtered subtext to determine if such values substantially match (col. 9, lines 35-40, wherein the hash descriptors are cross referenced in order to query the document database “comparing hash values of two bodies of text to determine if such values substantially match”).

Regarding Claim 5, Hull further discloses a method as recited in Claim 4 further comprising indicating whether such values substantially match (col. 9, lines 35-40, wherein the hash descriptors are cross referenced in order to query the document database and figure 3, the accumulator sets all the documents that has the same hashed descriptors “indicating whether such values substantially match”).

With regards to Claims 6, 7 and 64, arguments analogous to those presented for Claim 1 are applicable to Claims 6, 7 and 64.

With regards to Claims 15-17, arguments analogous to those presented for Claims 1-5 are applicable to Claims 15-17. Hull further discloses similar bodies of text having proximally similar hash values (Figures 2, numerical 214, and see col. 13 lines 30-44, wherein the hash descriptors are created using the word of the document and the descriptors are “proximally similar hash values” as they are dependent on the

lengths of the words, and if the words are same the hash values will be proximally be similar) as claimed.

With regards to Claims 18, 19 and 65, arguments analogous to those presented for Claims 15-17 are applicable to Claims 18, 19 and 65.

With regards to the claim 67, Pugh further teaches indicating suspicion of plagiarism between the two filtered subtext when the compared hash values of the two filtered subtext substantially match, (see col. 1, lines 15-21) as claimed.

With regards to the claims 68 and 70, Hull further teaches the text comprises multiple words and sentences, (see col. 13, lines 20-30 the two documents use for the example for creating the hash) as claimed.

With respect to claim 69 and 71, Hull teaches the test comprises multiple words a sentences, and hash is representative of all the textual content (see col. 13, lines 20-30 the two documents use for the example for creating the hash, and col. 13 lines 30-44, wherein the hash descriptors are created using the word of the document and the descriptors are dependent on the lengths of the words in the document) as claimed.

Response to Arguments

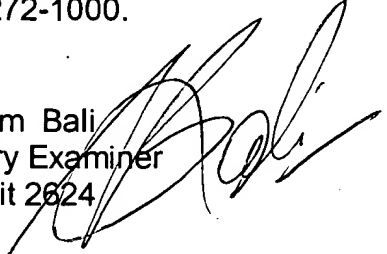
4. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vikkram Bali whose telephone number is 571.272.7415. The examiner can normally be reached on 7:00 AM - 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on 571.272.7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vikkram Bali
Primary Examiner
Art Unit 2624



vb
November 7, 2006